IC670ALG320

GE Fanuc four-channel current/voltage analog output module

CONTROLLED ENGINEERING COPY

Match each JMP-to-RET jumper to its configured current range, verify common return and loop power, and disable or load unused current outputs when only voltage is used.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC670ALG320
Manufacturer part	IC670ALG320
Hardware type	IC670ALG320
System family	GE Fanuc Field Control distributed I/O

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

1. Verify the complete IC670ALG320 catalog marking and assigned Field Control position before work.
2. Place the connected combined current and voltage command generation process in its approved maintenance state before disturbing the station.
3. Isolate BIU and field power, then confirm a safe condition at the IC670ALG320 terminal block.
4. Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG320.
5. Use ESD controls and protect the module connector, terminal block keying and exposed electronics.

MATCHED HARDWARE

- 20 to 29 V DC loop supply
- Current or voltage field loads
- JMP and RET range-selection terminals
- Field Control BIU analog-output allocation

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	IC670ALG320 / IC670ALG320 recorded
Physical interface	20 to 29 V DC loop supply
Companion check	Current or voltage field loads
Functional proof	Provides four simultaneous current and voltage channels
Application test	combined current and voltage command generation field station

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Catalog number	IC670ALG320
Output channels	4
Current ranges	4 to 20 mA; 0 to 20 mA with jumper
Voltage ranges	0 to 10 V; 0 to 12.5 V with jumper
Analog output data	4 words; 8 bytes
Power-supply range	20 to 29 V DC; 5% maximum ripple
Standby current	80 mA typical
Maximum operating current	180 mA including loop current
Power dissipation	1.5 W minimum; 4.3 W maximum
Typical digital resolution	12 bits
Voltage-only dummy load	250 to 800 ohm for open-wire supervision
Isolation	250 V AC continuous; 1500 V AC for 1 minute
BIU current	51 mA maximum

FIELD NOTE

Match each JMP-to-RET jumper to its configured current range, verify common return and loop power, and disable or load unused current outputs when only voltage is used.

03 COMMISSIONING WORKFLOW

1. Confirm IC670ALG320 and part number IC670ALG320 against the installed record.
2. Verify the physical connection to 20 to 29 V DC loop supply.
3. Apply the documented technical values for catalog number.
4. Exercise the function: provides four simultaneous current and voltage channels.
5. Run a controlled test for combined current and voltage command generation field station.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	IC670ALG320 / IC670ALG320 recorded
Physical interface	20 to 29 V DC loop supply
Companion check	Current or voltage field loads
Functional proof	Provides four simultaneous current and voltage channels
Application test	combined current and voltage command generation field station

04 RETURN-TO-SERVICE RECORD

- [ ] Restore only the documented channel range, scaling, alarms and default behavior; do not copy settings from an adjacent module.
- [ ] Energize in a controlled sequence and review PWR, channel, module and network diagnostics.
- [ ] Complete low, midpoint and high signal checks plus alarm and diagnostic verification and retain the final result before returning the process to service.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	IC670ALG320
INSTALLED POSITION	Documented GE Fanuc Field Control distributed I/O position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693CPU351	Related GE product	**View IC693CPU351 page**
IC693ALG391	Related GE product	**View IC693ALG391 page**
IC693ALG223	Related GE product	**View IC693ALG223 page**
IC695CPU315	Related GE product	**View IC695CPU315 page**
IC693CPU374	Related GE product	**View IC693CPU374 page**
IC200MDL740	Related GE product	**View IC200MDL740 page**
IC693CHS397	Related GE product	**View IC693CHS397 page**
IC200MDL241	Related GE product	**View IC200MDL241 page**

SOURCE IDENTIFIERS

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual

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